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APPLICATION FOR UNITED STATES PATENT

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Inventor(s): MAURICE IAN TAYLOR

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Invention: THRUST NOZZLE FOR A GAS TURBINE ENGINE GROUP 220
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ABSTRACT

Elbow nozzles in VTOL aircraft engines, are highly stressed when operating, in that they act as high pressure vessels.

The invention provides a means for varying the outlet area of such a nozzle without weakening its structure. A single flap is inserted inside the nozzle and connected to the nozzle extremity for pivoting about an axis which lies across the outlet between a position wherein its edges seal against the nozzle side and so restrict the nozzle outlet area and, a position wherein it lies parallel with a wall of the nozzle so that exhaust gas can pass both sides and out of a bigger outlet

SPECIFICATION

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